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March 18, 2004

CERTIFICATE OF MAILING 37 C.F.R 1.8

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March 18, 2004

Date

Steven L. Highlander

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Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

RE:

U.S. Patent Application No. 10/697,991 entitled "QUANTITATIVE ANALYSIS OF PROTEIN ISOFORMS USING MATRIX-ASSISTED LASER

DESORPTION/IONIZATION TIME OF FLIGHT MASS SPECTROMETRY" - M.

Benjamin Perryman et al. Our reference: UTEC:007US

Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement, Form PTO-1449, and references C1-C44.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTEC:007US.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,

Steven L.)Highlander

Reg. No. 37,642

SLH/kmv

Encl.: as noted

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PATENT CUSTOMER NO: 32425

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

M. Benjamin Perryman et al.

Serial No.: 10/697,991

Filed: October 30, 2003

For: QUANTITATIVE ANALYSIS OF

PROTEIN ISOFORMS USING MATRIX-

ASSISTED LASER

DESORPTION/IONIZATION TIME OF FLIGHT MASS SPECTROMETRY

Group Art Unit: 2881

Examiner: Unknown

Atty. Dkt. No.: UTEC:007US

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INFORMATION DISCLOSURE STATEMENT

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Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTEC:007US.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,

Steven L. Highlander

Reg. No. 37,642

Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P. 600 Congress Avenue, Suite 2400 Austin, Texas 78701 (512) 474-5201

Date:

March 18, 2004

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Form PTO-1449 (modified)			Atty. Docket UTEC:007US	Atty. Docket No. Serial No. UTEC:007US 10/697,991				
Eist of Patents and Publications for Applicant's				Applicant				
		•		M. Benjamin	Perryman	et al.		
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(Other .	Art (Includii	ng Autho	r, Title, Date	e Pertir	nent Pag	ges, Etc.)	
Exam. Init.	Ref. Des.	Citation						
	C1	Anderson et al., "A comparison of selected mRNA and protein abundances in human liver," Electrophoresis, 18:533-537, 1997.						
	C2	Boheler <i>et al.</i> , "Skeletal actin mRNA increases in the human heart during ontogenic development and is the major isoform of control and failing adult hearts," <i>J. Clin, Invest.</i> , 88:323-330, 1991.						
	C3	Bucknall et al., "Practical quantitative biomedical applications of MALDI-TOF mass spectrometry," Journal of American Society of Mass Spectrometry, 13(9):1015-27, 2002.						
	C4	Caprioli et al., "Molecular imaging of biological samples: localization of peptides and proteins using MALDI-TOP MS," Ana. Chem., 69:4751-4760, 1997.						
	C5	Chaurand et al., "Direct profiling of proteins in biological tissue sections by MALDI mass spectrometry," Anal. Chem., 71:5263-5270, 1999.						
	C6	Chen et al., "Discordant protein and mRNA expression in lung adenocarcinomas," J. Chromoatogr. Molecular & Cellular Proteomics, 1:304-313, 2002.						
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Examiner:	DATE CONSIDERED:
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EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT:

Form PTO-1449 (modified)		Atty. Docket No. UTEC:007US	Serial No. 10/697,991	
List of Patents and Publications for	Applicant's	Applicant		
		M. Benjamin Perryman et al.		
INFORMATION DISCLOSURE STATEMENT				
(Use several sheets if necessary)		Filing Date: October 30, 2003	Group: 2881	
U.S. Patent Documents Foreign		atent Documents	Other Art	
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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

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•	C9	Duncan et al., "Quantitative analysis of low molecular weight compounds of biological interest by matrix-assisted lase desorption ionization," Rapid Commun. Mass Spectrom., 7:1090-1094, 1993.				
	C10	Gobom et al., "Detection and quantification of neurotensin in human brain tissue by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry," Anal. Chem., 72:3320-3326, 2000.				
	C11	Gygi et al., "Correlation between protein and mRNA abundance in yeast," Mol. Cell. Biol., 19(3):1720-1730, 1999.				
	C12	Herron et al., "Small amounts of alpha-myosin heavy chain isoform expression significantly increase power output of rat cardiac myocyte fragments," Circ. Res., 90:1150-1152, 2002.				
	C13	Jespersen et al., "Direct sequencing of neuropeptides in biological tissue by MALDI-PSD mass spectrometry," Anal. Chem., 71:660-666, 1999.				
	C14	Kanazawa <i>et al.</i> , "Establishment of a method for mapping of N-linked oligosaccharides and its use to analyze industrially produced recombinant erythropoietin," <i>Biol. Pharm. Bull.</i> , 22(4):339-346, 1999.				
	C15	Li et al., "Single-cell MALDI: a new tool for direct peptide profiling," Trends Biotechnol., 18:151-160, 2000.				
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	C17	Lompre et al., "Myosin isoenzyme redistribution in chronic heart overload," Nature, 282:105-107, 1979.				
	C18	Lovelace et al., "Analysis of methionine enkephalin in human pituitary by multi-dimensional reversed-phase high-performance liquid chromatography, radioreceptor assay, radioimmunoassay, fast atom bombardment mass spectrometry, and mass spectrometry-mass spectrometry," J. Chromatogr., 562:573-584, 1991.				
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	C21	Lynn et al., "Identification of enterobacteriaceae bacteria by direct matrix-assisted laser desorption/ ionization mass spectrometric analysis of whole cells," Rapid Commun. Mass. Spectrom., 13:2022-2027, 1999.				
	C22	Mercadier et al., "Plasticity of myocardial phenotype during cardiac hypertrophy and failure," Bull. Acad. Nat'l Med., 177:917-931(abstract in English), 1993.				
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	C29	Parker et al., "Induction of S100b in myocardium: an intrinsic inhibitor of cardiac hypertrophy," Can. J. Appl. Physiol., 23(4):377-389, 1998.				
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	C32	Roepstorff et al., "MALDI-TOF mass spectrometry in protein chemistry," EXS, 88:81-97, 2000.				
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	C35	Stoeckli et al., "Imaging mass spectrometry: a new technology for the analysis of protein expression in mammalian tissues," Nat. Med., 7(4):493-496, 2001.
	C36	Tsoporis et al., "S100 β inhibits α 1-adrenergic induction of the hypertrophic phenotype in cardiac myocytes," J. Biol. Chem., 272:31915, 1986.
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